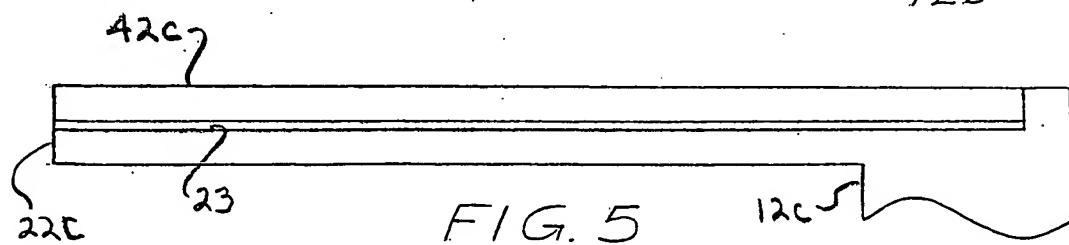
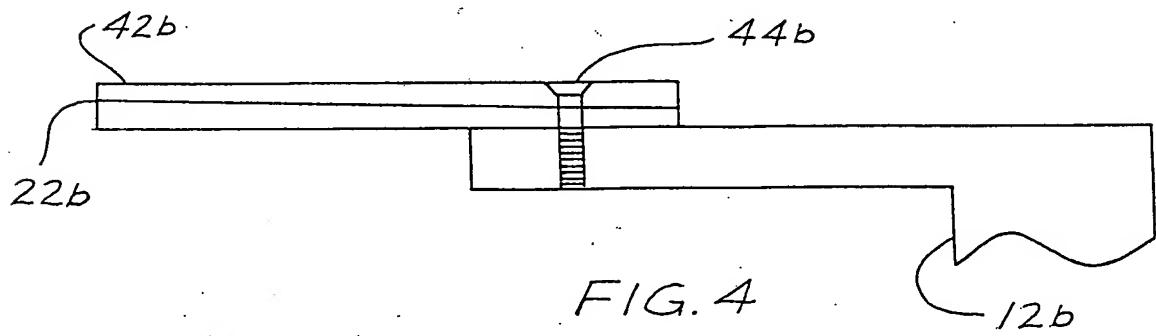
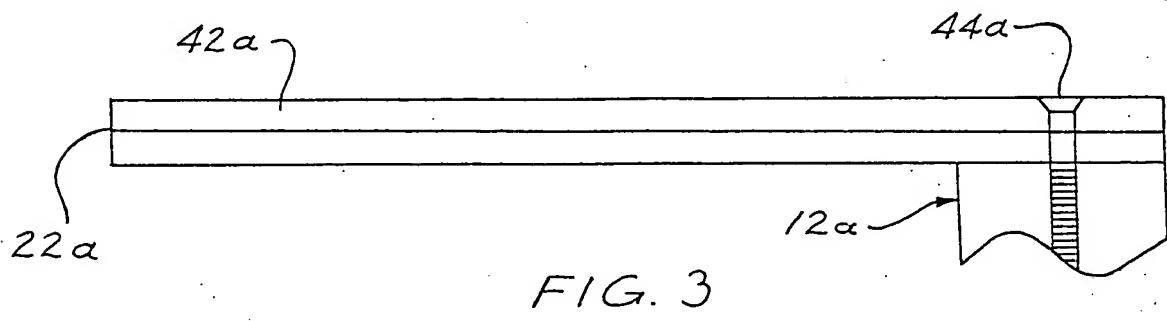
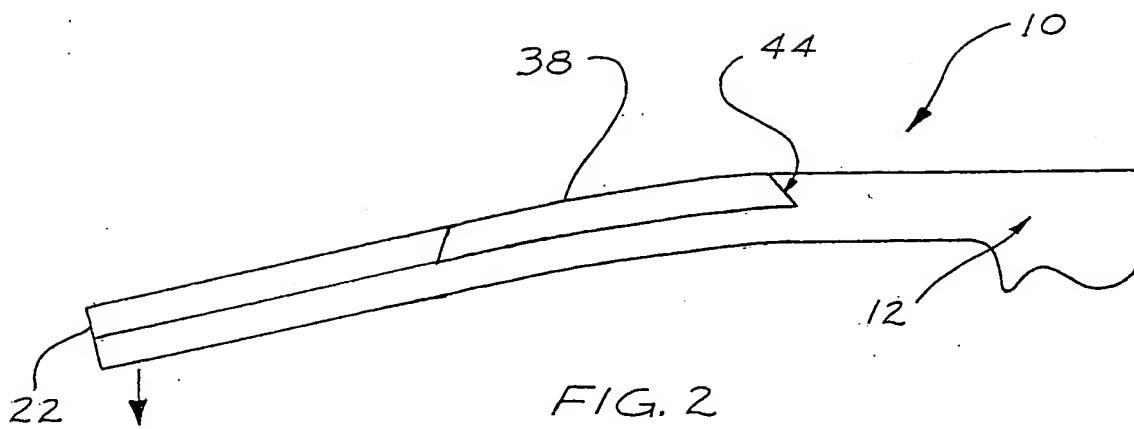


FIG. 1



VON MISES

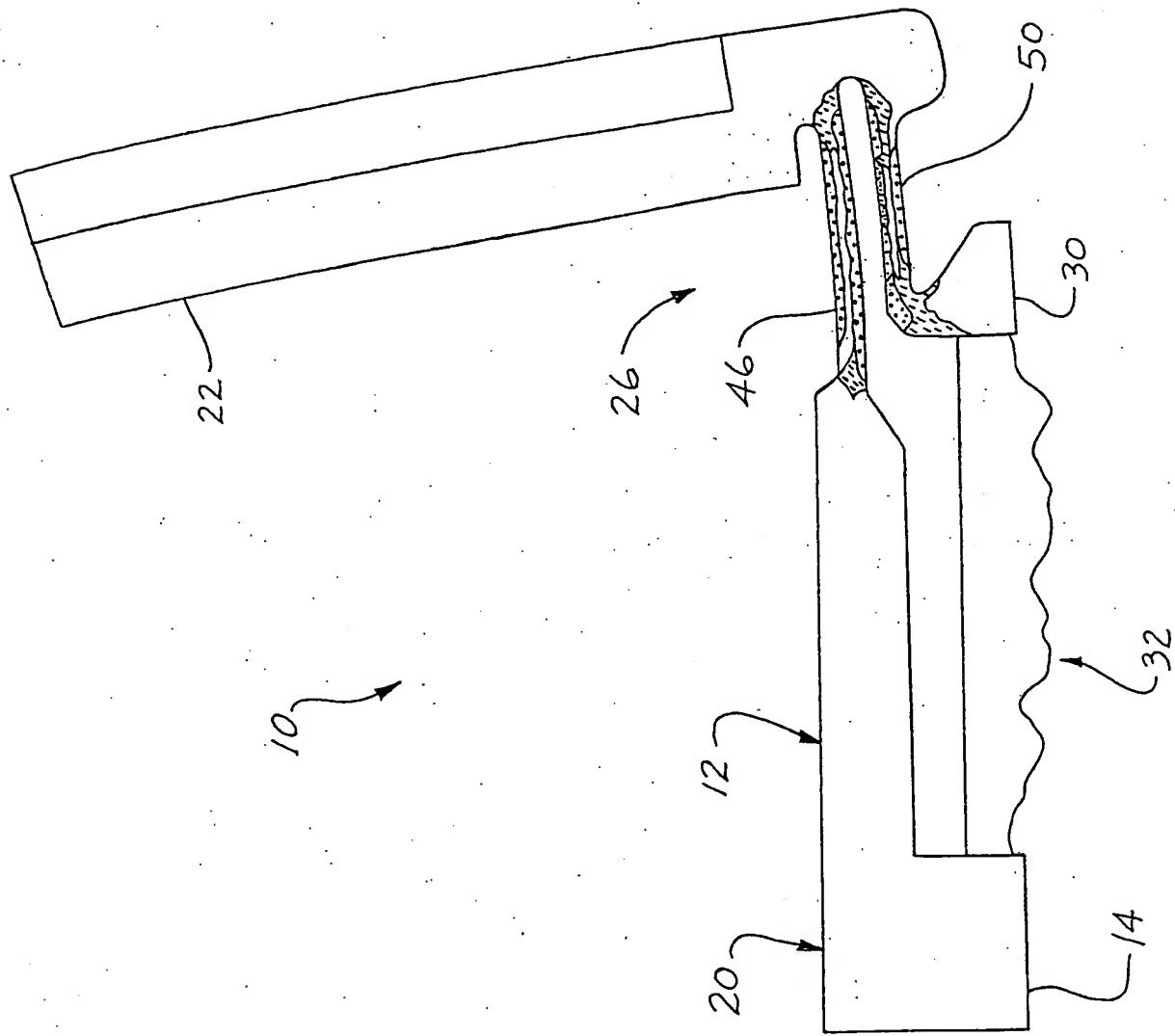
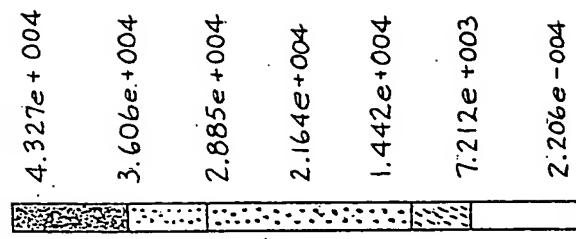


FIG. 6

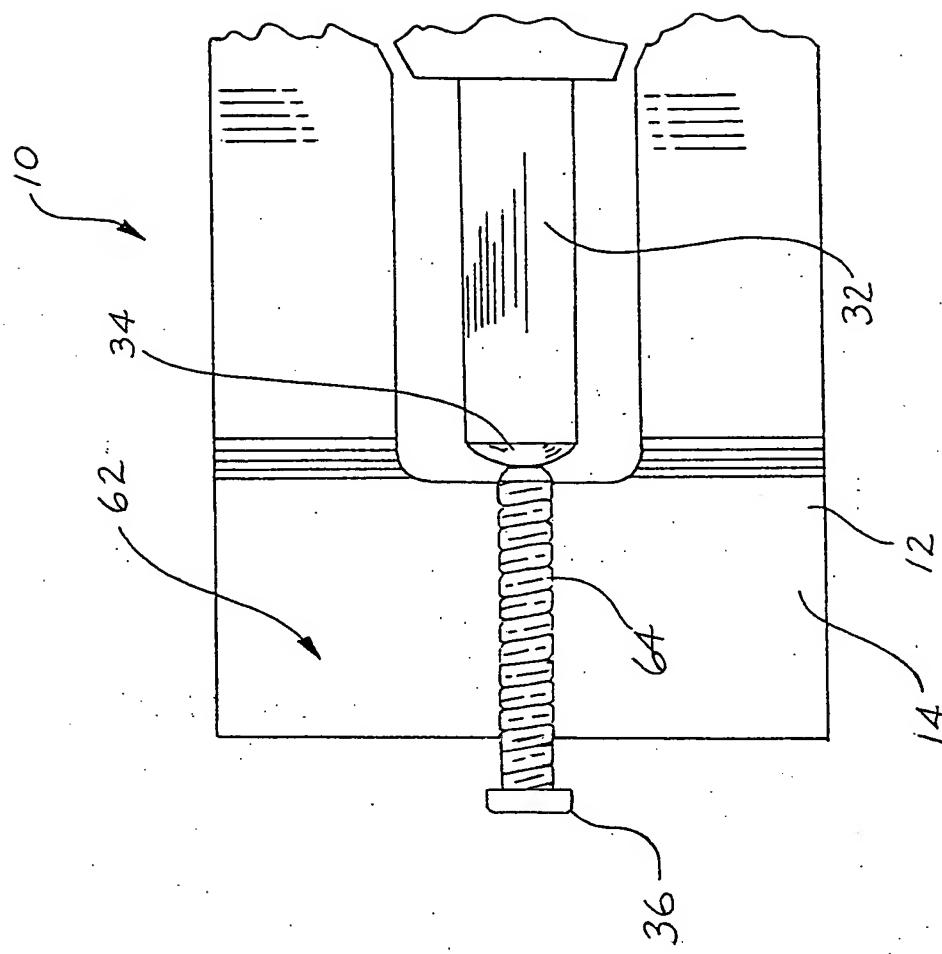


FIG. 7

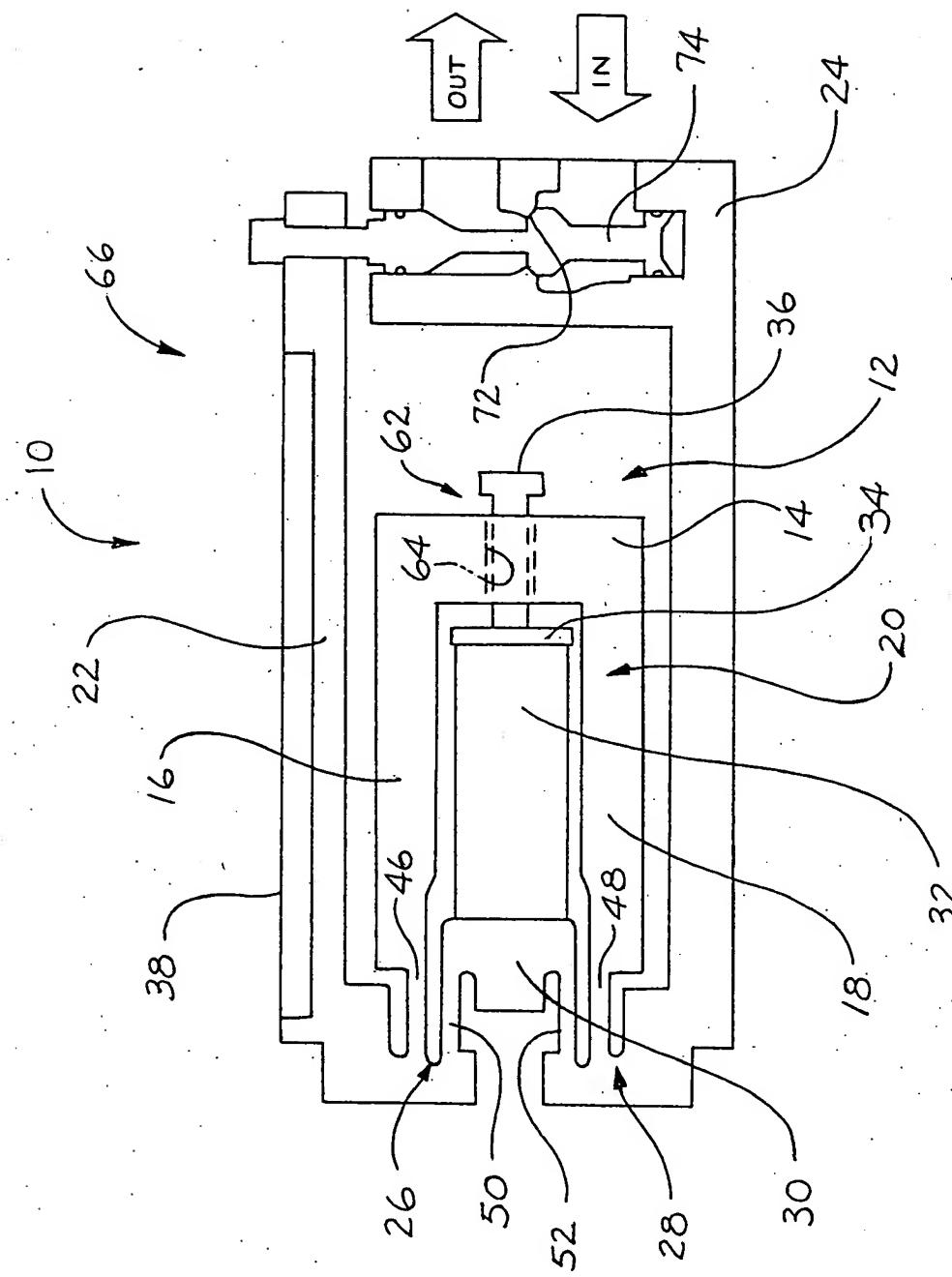


FIG. 8

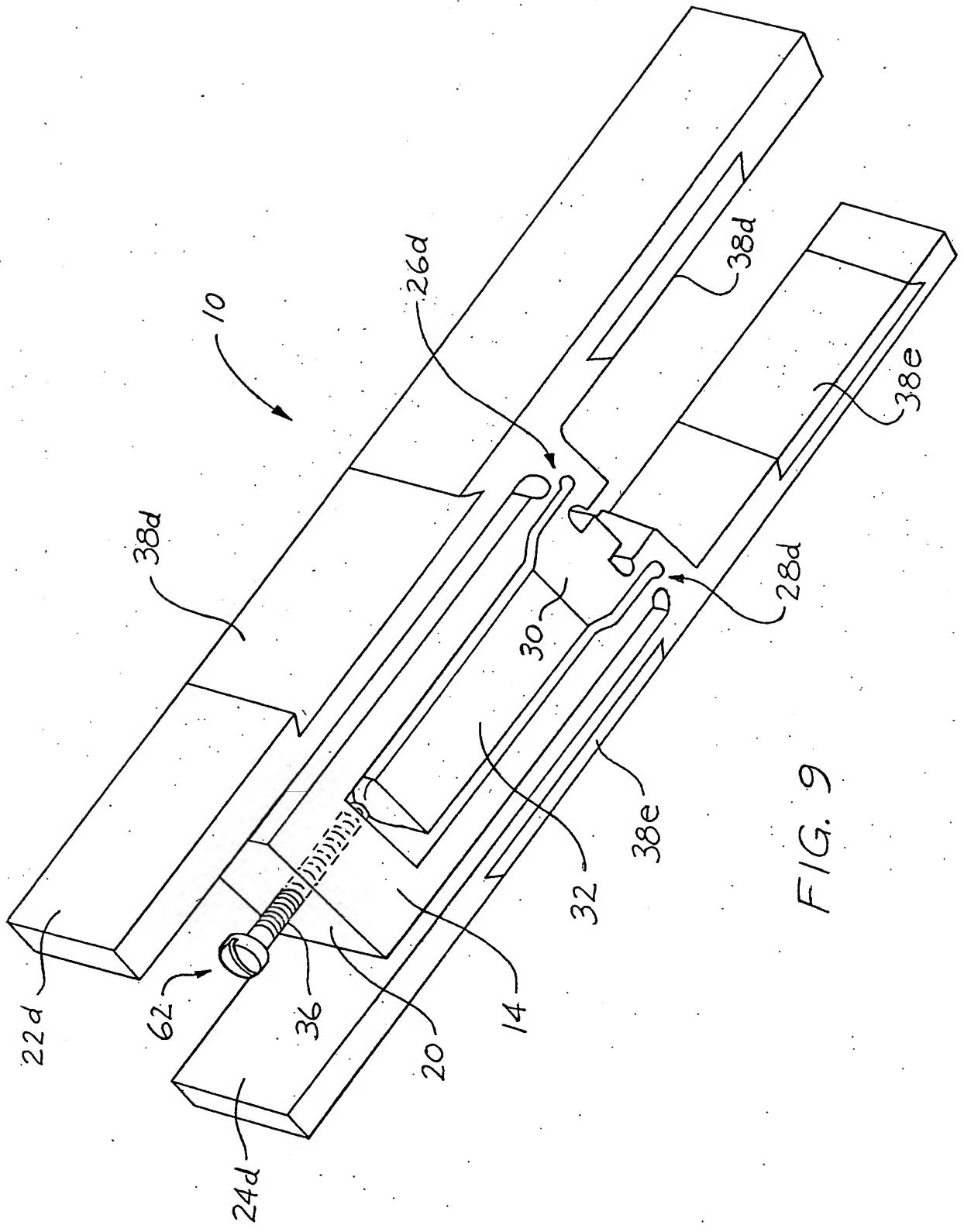


FIG. 9

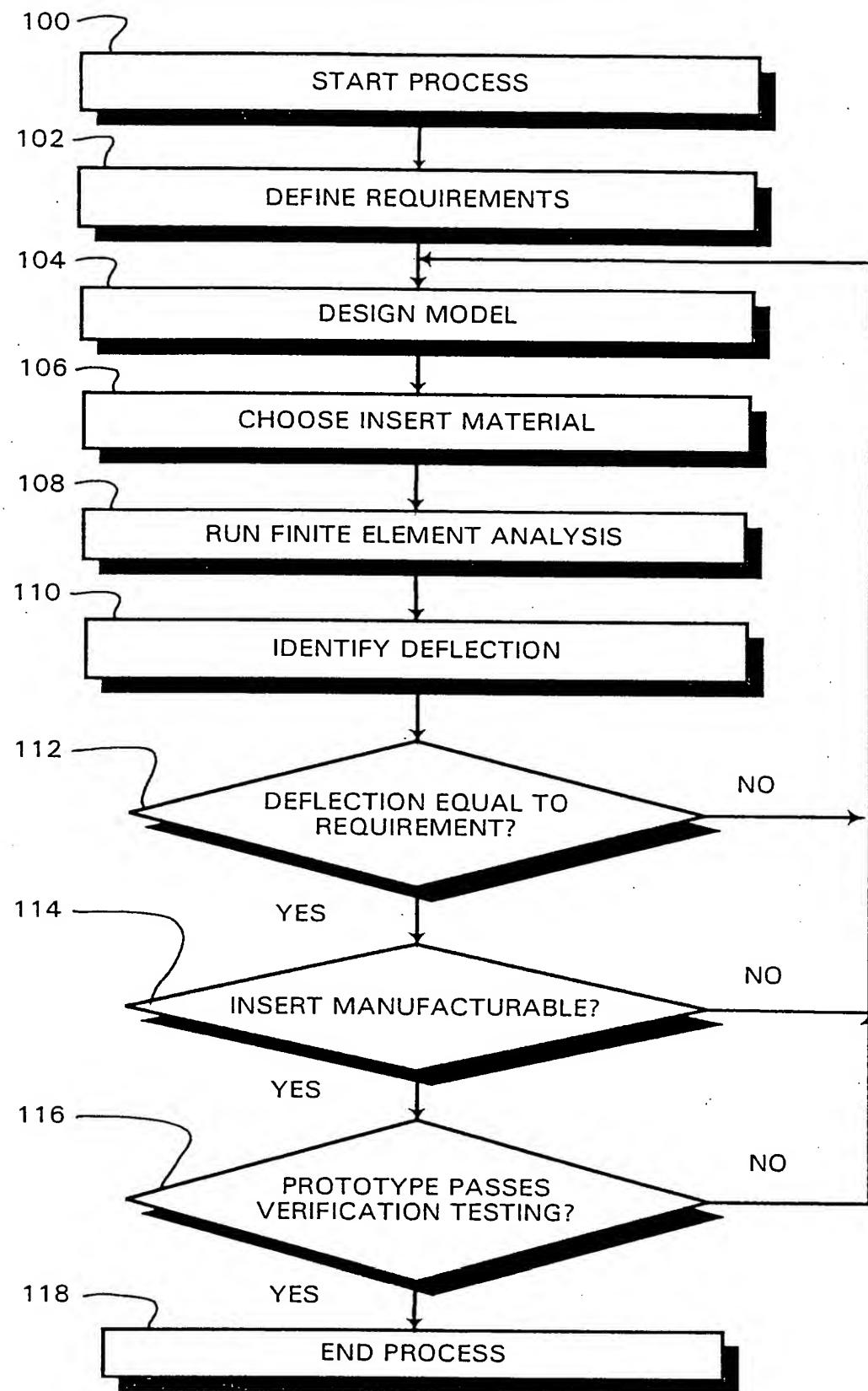


FIG. 10

Comparison of Arm Deflection Due to Temperature  
for 10mm Actuator

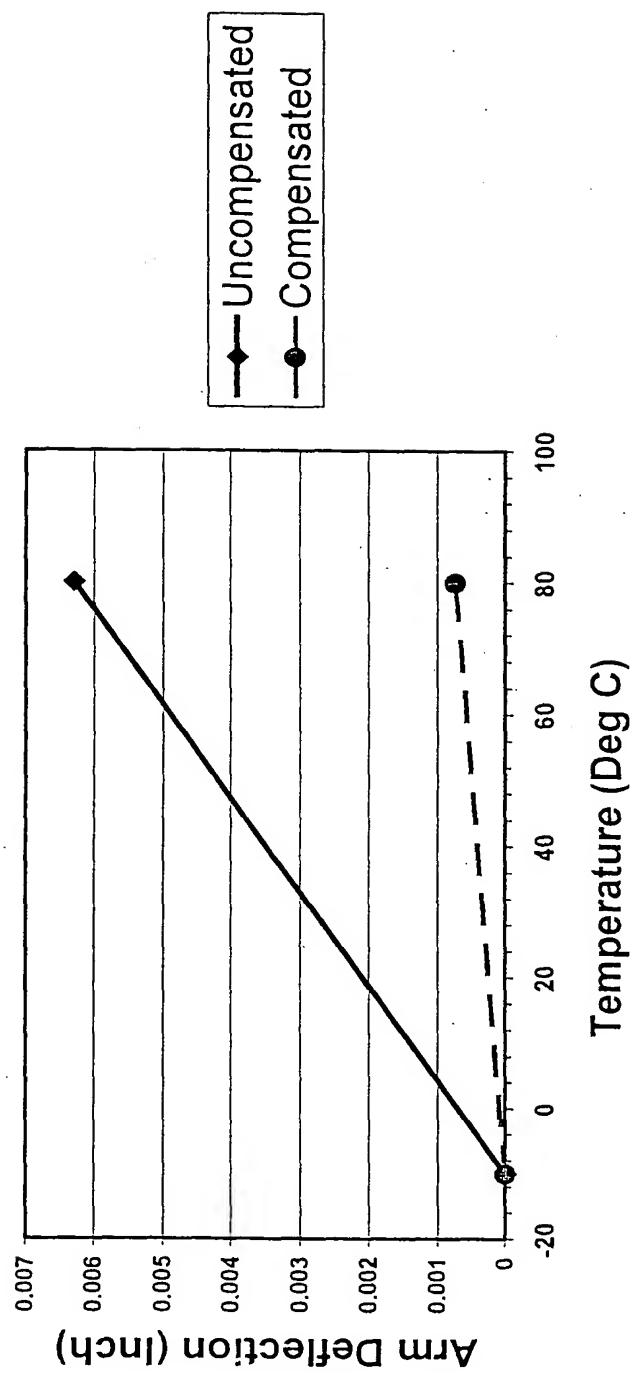


FIG. 11